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| L 52712-65 FSS-2/EWT(1)/FCC/EEC(t)/EED-2 P1-4 RB/GW/WR ACCESSION NR: AT5012364 | | Pm-4/Pn-4/Pac-4/Pi-4/Pj-4/Pk-4/ UR/2531/65/000/173/0076/0087 | 62 61 B+1 |
| AUTHOR: <u>Brylev, G. B.</u> ; <u>Vasil'chenko, I. V.</u> ; <u>Selitskaya, V. I.</u> ; <u>Fedorov, A. A.</u> | | | |
| TITLE: Simultaneous radar and aerological observations in the lower 1.5-km layer of the atmosphere | | | |
| SOURCE: Leningrad. Glavnaya geofizicheskaya observatoriya. Trudy, no. 173, 1965. Voprosy radiometeorologii (Problems in radiometeorology), 76-87 | | | |
| TOPIC TAGS: <u>clear sky radar</u> , <u>meteorological radar</u> , [✓] <u>aerological ob-</u> <u>servation</u> , <u>atmospheric inhomogeneity</u> , <u>inversion layer</u> , <u>lower atmosphere</u> , <u>atmospheric turbulence</u> | | | |
| ABSTRACT: Several authors have investigated various aspects of radar reflection from clear skies (A. A. Chernikov, Trudy TsAO, no. 48, 1963; Atlas D., Journal of Atmospheric and Terrestrial Physics, v. 15, no. 3/4, 1959). However, these studies left open the question of the use of clear-sky radar observation for the expansion of general, radar-derived, meteorological information. To test the feasibility of such uses, simultaneous radar and aerological studies in the lower 1.5-km layer of the atmosphere were carried out during the July-September period of 1963. The usual radar system was equipped with an auxiliary recording device capable of registering the envelope of the radar signals reflected from clear skies. The Card 172 | | | |

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ACCESSION NR: A15012364

article covers the methods of observation, the processing of results, and the pertinent theory and tabulates the results. Preliminary discussions indicate that: 1) inhomogeneities in the index of refraction of the air are caused by convective and turbulent motion within the 1.5-2.0 km layer of the atmosphere; 2) peculiarities in the altitude distribution of reflected signals are related to definite variations in wind velocity, relative humidity, and temperature inversions within the layers under consideration; 3) altitudes at which one finds temperature and humidity pulsations also identify layers with greater radar reflectance; the maximum altitude of radar reflections H_{max} agrees approximately with the uppermost boundary of the layer within which one still observes such pulsations; 4) in two observed cases the lower inversion boundaries coincided with H_{max} ; apparently, the equipment used could not detect variations in the index of refraction within and above the inversion layers; and 5) none of the existing devices is capable of detecting pulsations within relatively thin atmospheric layers. The need for further simultaneous observations of the type discussed above is emphasized. Orig. art. has: 7 formulas, 4 figures, and 4 tables.

[08]

ASSOCIATION: Glavnaya geofizicheskaya observatoriya, Leningrad (Main Geophysical Observatory)

SUBMITTED: 00

ENCL: 00

SUB CODE: ES,DC

NO REF SOV: 005

OTHER: 003

ATD PRESS: 4011

Card 2/2

L 21969-66 FSS-2/EWT(1)/FCC RB/GW/VR
ACC NR: AT6008125

UR/2531/64/000/159/0065/0069

AUTHOR: Sal'man, Ye.M. (Candidate of Physico-mathematical Sciences); Bryley, G.R.

ORG: None

TITLE: Characteristics of radar sounding echo from cumulus clouds of small vertical extension

SOURCE: Leningrad. Glavnaya geofizicheskaya observatoriya. Trudy, no. 159, 1964.
Voprosy radiometeorologii (Problems in radiometeorology), 65-69

TOPIC TAGS: ~~radiosounding~~, radiometeorology, ~~radio~~ radar echo, ~~troposphere~~ radar, ^{meteoro}logic, ~~return~~, ~~cloud~~ cloud formation, atmospheric cloud

ABSTRACT: This paper is an exploration of radar echo return pictures on three types of indicators (A; E; and P - PPI), for the purpose of discerning radar return features which may become useful for the identification of cumulus cloud development stages and for the elucidation of their structure and the mechanism of their growth. Vertical sounding of the troposphere sometime shows a close relation of the discrete echos to those of cumulus clouds. In the absence of clouds, radar echos of two basic types can be observed. At lower humidities, the E-scope shows a random distribution of radar echos, gradually decreasing in numbers with height and reaching up to the height of the convective mixing zone. Another pattern, occurring at high humidities, has a uniform distribution of echo spots. If, after some time, cumulus clouds form, their tops remain

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ACC NR: AT6008125

always below the inversion layer boundary. Theoretical analysis shows that cumulus clouds in their early development stages, with drop radii below 25 microns, are transparent to the 3 cm radar wavelength used. Therefore, presence of reflections points to raindrops conglomeration into jets or bubbles. This has been suspected in a group of tabulated cases which had their heights confirmed by airplane flight measurements. Discretely-coherent radar echos were often obtained when the vertical cloud extension exceeded 700 meters, and their tops reached the area of negative temperatures. Further growth creates drop sizes large enough for the production of diffuse reflection. On the PPI scope the clouds are then visible as a set of thermals moving with the prevailing wind. An additional indication of radar echos from cumulus clouds in their early development stages comes from the evidence of correlation between the maximum height of radar return, H_{max} , and the level of condensation, H_{cond} . Orig art. has: 3 figures, 5 formulas and 2 tables.

SUB CODE: 04, 17 SUBM DATE: 00 ORIG RAF: 001 OTH REF: 000

Card 2/2 ULR

L 26468-66 EWT(1)/FCC GW
ACC NR: AT6008128

UR/2531/64/000/ 159/0085/0088

AUTHOR: Sal'man, Ye.M. (Candidate of Physico-mathematical Sciences); Brylev, G.B.

ORG: None

TITLE: On the relation between the thermodynamic state of the atmosphere and radar echos from the clear sky

SOURCE: Leningrad. Glavnaya geofizicheskaya observatoriya. Trudy, no 159, 1964.
Voprosy radiometeorologii (Problems in radiometeorology), 85-88

TOPIC TAGS: meteorologic radar, atmospheric thermodynamics, atmospheric humidity, atmospheric convection, radar echo

ABSTRACT: This paper is an analysis of relationships between discrete-coherent radar echo parameters and the thermodynamic state of the atmosphere. The basic material comprised published referenced data, which were additionally processed and studied. The clear sky atmospheric return of height/range mode (R-scope) radar soundings was described by the parameters N and H_{max} . N - was the number of observed discrete radar echos per unit volume (km^{-3}) explored by the radar, and H_{max} - the maximum height of the radar echos. Without delving into the problems of gradients and the index of refraction, several relationships between the radar return parameters and the atmospheric state parameters were established. It was found that the average value of H_{max} increases from May to July, paralleling the rise in the ground level temperatures and humidity.

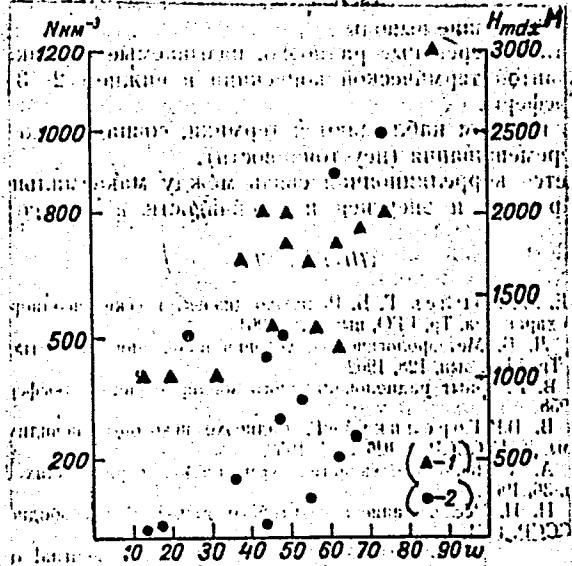
Card 1/2

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ACC NR: AT6008128



ty. Also, radar echo returns arrive from the zone of thermal convection. Furthermore, evaluations during intermass days showed a correlation between atmosphere instability energy, w , and both H_{max} and N , as seen in Fig. 1. It was also noted that steps in the refraction index, sufficient for radar echo generation are caused basically by humidity gradients. Orig. art. has: 1 figure, 3 formulas and 1 table.

Fig. 1. Relations between H_{max} , N and w .
1 - $H_{max}(w)$; 2 - $N(w)$.

SUB CODE: 04, 17 / SUBM DATE: None / ORIG REF: 006 / OTH REF: 001
Card 2/2 88

BRYLEV, I.M., inzh.

~~Experience in introducing production-line methods for assembling electric core drives. Energomashinostroenie 4 no.8:42-44 Ag '58. (MIRA 11:11)~~

Production of Bessemer converter bottoms. V. N. MESHCHERIN, P. A. BRYLEV, F. G. KOSTRINSKOG, AND E. F. VIT. *Ognenfory*, 15 [10] 441-46 (1950). Up to 1949, the average life of bottoms made at the Brakleyevsk Metallurgical Works from 50% Tarasov quartzites, 30% Prosyamovsk clay, 10% Chasov-Yar clay, and 10% coke breeze was 7.5 heats. This was raised to over 12 heats by improving the grain size, ramming, and drying and by changing the number and distribution of tuyères in the bottom. The grain size of the clay was 5 to 1 mm. 30 to 40%, and 1 to 0 mm. 60%; grain size of the quartzite was 7 to 3 mm, 30 to 40%, 3 to 1 mm, 25 to 30%, and 1 to 0 mm. 35 to 50%; the coke breeze left no residue on a 3-mm. sieve. The mix was analyzed as SiO_2 70 to 74, Al_2O_3 11.5 to 14.5, Fe_2O_3 up to 1.0, CaO 0.8, and ignition loss 9 to 14%. Ash in breeze was not over 13%. The moisture of the mix was 6.5 to 7.5%. The mix was rammed with pneumatic hammers in boxes with plates for 18 tuyères, using an air pressure of 5 atm. The layer thickness was 30 to 35 mm., and the number of layers was 18. Drying lasted 232 hr., up to 100° at 5°/hr. and for 100° to 200° at 10°/hr. The pieces were cooled to 100° in the kiln and to 60° with the roof hatches open.

B.Z.K.

BRYLEV P. A.

181T50

USSR/Engineering - Refractories, Kilns Mar 51

"Operation of Periodic Kilns on Coke Gas," V. N. Meshchishen, P. A. Brylev, Ye. F. Vit', Engineers, Yenakiyev Metallurgical Plant

"Ogneupory" No 3, pp 130-132

Describes conversion of 6 periodic kilns to heating by coke gas. Expt proved to be successful and resulted in improvement of product quality and in decreasing rejects. Reduction of service personnel by 6 men and considerable savings in operational expenses were also achieved.

181T50

BRYLEV, V.K.

Increase of soil moisture from melt waters on the Ob' Wooded
Steppe. Izv.Sib.ots. AN SSSR. no.1:107-117 '59. (MIRA 12:4)

1. Altayskoye krayevoye upravleniye sel'skogo khozyaystva.
(Altai Territory—Soil moisture)

TROFIMOV, S.S., kand. sel'khoz.nauk, st. nauchn. sotr.; BRYLEV,
V.K.; KOCHERGIN, A.Ye., kand. sel'khoz. nauk; KUZNETSOVA,
L.Z.; KORLYAKOV, O.I., kand. sel'khoz. nauk, st. nauchn.
sotr.; KOSTROMITIN, V.B.; MIKHAYLOV, M.I.; POPOV, P.D.,
red.

[Soils of the Kuznetsk Basin, a map as the face of a field,
laboratory of fertility, vitamins of the earth, protectors
of crops, enrichment of feed] Pochvy Kuzbassa, karta -
litso polei, laboratoria plodorodiia, vitaminy zemli, za-
shchitniki posevov, obogashchenie korma. Kemerovo, Keme-
rovskoe knizhnoe izd-vo, 1964. 92 p. (MIRA 18:5)

1. Biologicheskiy institut Sibirskogo otdeleniya AN SSSR
(for Trofimov). 2. Zaveduyushchiy laboratoriye zashchity
rasteniy Kemerovskoy sel'skokhozyaystvennoy optytnoy stantsii
(for Kostromitin). 3. Zaveduyushchiy otdelom zhivotnovod-
stva Kemerovskoy sel'skokhozyaystvennoy optytnoy stantsii
(for Mikhaylov). 4. Zaveduyushchiy agrokhimicheskoy labo-
ratoriye Sibirskogo nauchno-issledovatel'skogo instituta
sel'skogo khozyaystva (for Kochergin). 5. Zaveduyushchaya
agrokhimicheskoy laboratoriye Kemerovskoy sel'skokhozyay-
stvennoy optytnoy stantsii (for Kuznetsova). 6. Kemerov-
skaya sel'skokhozyaystvennaya optytnaya stantsiya (for
Korlyakov).

BRYLEV, V.N.

Irrigating soils with melt waters under continental climatic conditions
of the Ob Valley forest-steppes in the Altai Territory. Pochvovedenie
no.7:9'-93 Jl '59. (HTU 12:11)

1. Altays'kaya plodovo-yagodnaya opytneya stantsiya.
(Ob Valley--Snow)

MAKARENKO, P.N.; BRYLEVA, N.I.

Better care for patients. Apt.delo 12 no.3:59-60 My-Je '62.
(MIRA 16:1)

1. Khar'kovskoye oblastnoye aptechnoye upravleniye.
(MEDICAL CARE)

BRYLEVA, N.I.; LITVINENKO, M.N.

Quality control of the production in the system of pharmacy
administration. Apt. dslc 12 nc.2&15-18 Mr-Ap '63.

(MIRA 17&7)

1. Khar'kovskiy farmaceuticheskiy institut.

BRYLEVA, Yelena Alekseyevna; KHUDYAKOV, G.V., red.; TSYURKO, M.I.,
tekhn.red.

[We are responsible for high vegetable yields] Vysokii
urozhai ovoshchей v nashikh rukakh. Orenburg, Orenburgskoe
knizhnoe izd-vo, 1960. 14 p. (MIRA 14:2)

1. Brigadir ovoshchеводческой brigady sovkhoza "Ovoshchевод,"
Chkalovskogo rayona (for Bryleva).
(Vegetable gardening)

BRYLEYEV, A.M.

BRYLEYEV, A.M., kandidat tekhnicheskikh nauk

Theoretical methods of synthesis for class N contact relay circuits.
Tekh. zhel. dor. 7 no.8:23-24 Ag'48. (MLRA 8:11)
(Electric relays)

BRYLEYEV, A. M.

N/5
663.5
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Rel'sovyye tsepi (Track circuits, by) A. M. Bryleyev i
B. S. Ryazantsev. Moskva, Transzheldorizdat, 1952.

485 p. diagrs., graphs, tables.

BRYLEV, A.M.; FONAROV, N.M.; SHISHLYAKOV, A.V.; PENKIN, N.P.; ARSHAVSKIY,
S.L.; SADOV, I.Ya., red.; VENKHA, G.P., tekhn. red.

[Automatic locomotive signaling with continuous automatic stop
according to the system developed by the Central Scientific
Research Institute] Avtomaticheskaja lokomotivnaja signalizatsija
s nepreryvnym avtostopom sistemy TSNII. Moskva. Gos. transp. zhel-
dor. izd-vo, 1952, 190 p. (Moscow. Vsesoiuznyi nauchno-issledovatel'-
skii institut zheleznodorozhnogo transportsa. Trudy, no.52).

(Railroads—Signaling) (MIRA 11:6)
(Railroads—Automatic train control)

BRILEYEV, A.M., laureat Stalinskoy premii, inzhener; GAMBURG, Ye.Yu., inzhener, retsenzent; GOLOVKIN, M.K., inzhener, retsenzent; KAZAKOV, A.A., kandidat tekhnicheskikh nauk, retsenzent; KUT'IN, I.M., dotsent, kandidat tekhnicheskikh nauk, retsenzent; LEONOV, A.A., inzhener, retsenzent; SEMENOV, N.M., laureat Stalinskoy premii, inzhener, retsenzent; CHERNYSHEV, V.B., inzhener, retsenzent; VALUYEV, G.A., inzhener, retsenzent; METTAS, N.A., laureat Stalinskoy premii, inzhener, retsenzent; NOVIKOV, V.A., dotsent, retsenzent; PIVOVAROV, A.L., inzhener, retsenzent; POGODIN, A.M., inzhener, retsenzent; KHODOROV, L.R., inzhener, retsenzent; PIVOVAROV, A.L., inzhener, retsenzent; POGODIN, A.M., inzhener, retsenzent; KHODOROV, L.R., inzhener, retsenzent; SHUPLOV, V.I., kandidat tekhnicheskikh nauk, retsenzent; KLYKOV, A.F., inzhener, retsenzent; YUDZON, D.M., tekhnicheskiy redaktor; VERINA, G.P., tekhnicheskiy redaktor.

[Technical handbook for railroad men] Tekhnicheskii spravochnik zheleznychodorozhnika. Vol. 8. [Signaling, central control, block system, and communication] Signalizatsiya, tsentralizatsiya, blokirovka, sviaz'. Red. kollegiia A.F.Baranov [i dr.] Glav.red. E.F.Budoi. Moskva, Gos. transp. zhel-dor. izd-vo, 1952. 975 p. (Card 2) (MLRA 8:2)
(Railroads--Signaling) (Railroads--Communication systems)

BARANOV, A.F., redaktor; BIZYUKIN, D.D., redaktor; VAKHNIN, M.I., otvetstvennyy redaktor toma, professor, doktor tekhnicheskikh nauk; VEDENISOV, B.N., redaktor; IVLIYEV, I.V., redaktor; MOSHCHUK, I.D., redaktor; RUDOV, Ye.F., glavnnyy redaktor; SOKOLINSKIY, Ya.I., redaktor; SOLOGUBOV, V.N., redaktor; SHILEVSKIY, V.A., redaktor; ALFEROV, A.A., inzhener; ANASHKIN, B.T., inzhener; AVANAS'YEV, Ye.V., laureat Stalinskoy premii, inzhener; BELENKO, K.M., dotaant; BORISOV, D.P., dotsent, kandidat tekhnicheskikh nauk; ZHIL'TSOV, P.N., inzhener; ZBAR, N.R., inzhener; IL'YENKOV, V.I., dotsent, kandidat tekhnicheskikh nauk; KAZAKOV, A.A., kandidat tekhnicheskikh nauk; KRAYZMER, L.P., kandidat tekhnicheskikh nauk; KOTLYARENKO, N.F., dotsent, kandidat tekhnicheskikh nauk; MAYSHEV, P.V., professor, kandidat tekhnicheskikh nauk; MARKOV, M.V., inzhener; NELEPETS, V.S., dotsent, kandidat tekhnicheskikh nauk; NOVIKOV, V.A., dotsent; ORLOV, N.A., inzhener; PETROV, I.I., kandidat tekhnicheskikh nauk; PIVKO, G.M., inzhener; PODODIN, A.M., inzhener; RAMIAU, P.N., dotaent, kandidat tekhnicheskikh nauk; ROGINSKIY, V.N., kandidat tekhnicheskikh nauk; RYAZANTSEV, B.S., laureat Stalinskoy premii, dotsent, kandidat tekhnicheskikh nauk; SNARSKIY, A.A., inzhener; FEL'DMAN, A.B., inzhener; SHASTIN, V.A., laureat Stalinskoy premii, inzhener; SHUR, B.I., inzhener; GONCHUKOV, V.I., inzhener, retsenzent; NOVIKOV, V.A., dotsent, retsenzent; APANAS'YEV, Ye.V., laureat Stalinskoy premii, retsenzent;

[Technical handbook for railroad men] Tekhnicheskii spravochnik zhelezno-dorozhnika. Vol. 8. [Signaling, central control, block system, and communication] Signalizatsiya, tsentralizatsiya, blokirovka, sviaz'. Red. kollegiia A.F.Baranov [i dr.] Glav.red. E.F.Budoi. Moskva, Gos. transp. zhel-dor. izd-vo, 1952. 975 p. (Continued on next card)

BRYLEYEV, A.M.; FONAREV, N.M.; SHISHLYAKOV, A.V.

Numerical code alternating-current automatic block system.
Trudy TSNII MPS no.84:3-151 '53. (MLRA 7:5)
(Railroads--Signaling)

BRYLEYEV, A.M.

GAVRILOV, M.A., otvetstvennyy redaktor; IL'IN, V.A., redaktor; KRASIVSKIY,
S.P., redaktor; KURDYUKOV, K.P., redaktor; MALOV, V.S., redaktor;
RAYNES, R.L., redaktor; BRYLEYEV, A.M., redaktor; ORAKOVA, Ye.D.,
tekhnicheskiy redaktor

[Telemechanics in power engineering systems] Telemekhanizatsiya
energosistem; materialy soveshchaniia 1952 g. po telemekhanizatsii
energosistem. Moskva, Izd-vo Akademii nauk SSSR, 1954. 213 p.
(MLRA 8:3)

1. Akademiya nauk SSSR. Institut avtomatiki i telemekhaniki.
(Remote control) (Electric power)

Name: BRYLEYEV, Arkadiy Mikhaylovich

Dissertation: Automation of Processes of Headway Regulation
of The Movement of Trains on Railroad Spans with
the Application of Rail Electric Circuits by
Numerical Speed

Degree: Doc Tech Sci

Affiliation: / not indicated /

Defense Date, Place: 13 May 55, Council of the All-Union Sci Res Inst
of Railroad Transport

Certification Date: 15 Sep 56

Source: BMVO 6/57

BRYLEYEV, H.M.

LEONTOVICH, M.A., akademik, redaktor; GREKHOVA, M.T., professor, redaktor;
AYZERMAN, M.A., doktor tekhnicheskikh nauk, redaktor; GINZBURG, V.A.,
professor, redaktor; GORELIK, G.S., professor, redaktor; LEONTOVICH-
ANIRONOVA, Ye.A., dotsent, redaktor; ZHELETSOV, N.A., dotsent, redak-
tor; PETROV, V.V., kandidat tekhnicheskikh nauk, redaktor; NIKOLAYEV,
Ya.N., dotsent, redaktor; AGITOVA, N.A., redaktor; BRYLEYEV, A.M.,
redaktor; ALEKSEYEV, T.V., tekhnicheskiy redaktor.

[Dedicated to the memory of Aleksandr Aleksandrovich Andronov] Pamiati
Aleksandra Aleksandrovicha Andronova. Moskva, 1955. 718 p.
(MIRA 8:4)

1. Akademiya nauk SSSR.
(Mathematical physics)(Automatic control)(Astrophysics)

BRYLEYEV, A. M.

"Automatization of Processes of Interspace Regulation
of Train Traffic on Railroad Runs Employing Rail Chains of a Numerical
Code." Min Land Transportation USSR, All-Union Sci Res Inst of Railroad
Transportation, Moscow, 1955. (Dissertation for the Degree of Doctor
in Technical Sciences)

SO: M-955, 16 Feb 56

~~HRYLEYEV, Arkadiy Mikhaylovich; GAMBURG, Ye.Yu., inzhener, redaktor;~~
~~VERINA, G.P., tekhnicheskiy redaktor~~

[Apparatus for centralized control and block-systems] Apparatura
SStB. Moskva, Gos. transp. zhel-dor. izd-vo, 1956. 295 p. (MIRA 9:7)
(Railroads--Signaling)

BRYLEYEV, A.M. doktor tekhnicheskikh nauk; SHISHLYAKOV, A.V., kandidat
tekhnicheskikh nauk.

Locomotive signal systems and speed control worked out by the
Central Scientific Research Institute of the Ministry of Trans-
portation and Communication. Vest. TSNII MPS no.3:3-10 N '56.

(MLRA 10:1)

(Railroads--Signaling)

BRYLEYEV, A.M.

ARSHAVSKIJ, S.L.; BRYLEYEV, A.M.; MOZHAYEV, S.S.; SHISHLYAKOV, A.V.;
CHEKHMENOV, N.M., redaktor, inzhener; BOBROVA, Ye.N., tekhnicheskiy redaktor.

[Automatic locomotive signaling of the continuous type having speed control developed by the Central Scientific Research Institute] Avtomaticheskaja lokomotivnaja signalizatsija neprevychnogo tipa s kontrolem skorosti sistemy TsNII. Moskva, Gos. transp. zhel-dor. izd-vo, 1957. 136 p. (Moscow. Vsesoiuznyi nauchno-issledovatel'skii institut zheleznych dorozhnoj transporta. Trudy no.136). (MLRA 10:9)

(Railroads--Automatic train control)

BRYLEV, Arkadiy Mikhaylovich

BRYLEV, Arkadiy Mikhaylovich, doktor tekhn. nauk; CHMOMIEV, N.M., inzh.,
red.; VENINA, O.P., tekhn. red.

[Coded rail circuits] Kodovye rel'sovye tsyperi. Moscow, Gos. transp.
zhelez-dor. izd-vo, 1957. 162 p. (Moscow. Vsesoiusnyi nauchno-issledo-
vatel'skii institut zheleznodorozhnogo transporta. Trudy, no.144).
(Electric railroads) (MIRA 10:12)

BRYLEYEV, A. M.

VAKHNIN, Mikhail Ivanovich; VLADAVSKIY, Moisey Il'ich; IL'YENKOV, Viktor Ivanovich; KOTLYARENKO, Nikolay Fedorovich; MAYSHEV, Petr Vladimirovich;
BRYLEYEV, A.M., doktor tekhn.nauk, retsenzent; RAKITO, E.I., redaktor;
CHEKEMENEV, N.M., redaktor; VERINA, G.P., tekhnicheskiy redaktor.

[Automatic control and telemechanics for railroad lines] Avtomatika i telemekhanika na peregonakh] Avtomatika i telemekhanika na peregonakh.
Pod obshchei red. M.I.Vakhnina. Moskva, Gos.transp.zhel-dor.izd-vo,
1957. 435 p. (MIRA 10:12)

(Railroads--Signaling--Block system)

~~BRILEYEV, A.M., doktor tekhnicheskikh nauk; SHISHLYAKOV, A.V., kandidat
tekhnicheskikh nauk.~~

Direct-current numerical code automatic block systems. Avtom.telem.i
sviaz' no.8:9-14 Ag '57. (MLR 10:8)
(Railroads--Signaling--Block systems)

BRYLEV, A.M., doktor tekhn.nauk; STROGANOV, L.P., inzh., red.; BOBROVA, Ye.N.,
tekhn.red.

[Wireless crossing signaling and modernized number code automatic blocking] Besprovodnaia pereezdnaia singalizatsiia i
modernizirovannaiia chislovaia kodovaia avtoblokirovka.. Moskva,
Gos.transp.zhel.dor.izd-vo. 1958. 68 p. (Moscow. Vsesoiuznyi
nauchno-issledovatel'skii institut zhelezodorozhного transporta.
Trudy, no.146) (MIRA 12:1)

(Railroads--Signaling)

MAYSHEV, P.V.; ZHIL'TSOV, P.N.; VYKHODTSEV, V.V.; KOTLYARENKO, N.F.;
BRYIAMEV, A.M.; KUT'IN, I.M.; NEUGASOV, N.M.

Seventy-fifth anniversary of the birth of Professor Nikolai Osipovich
Roginskii. Avtom., telem. i sviaz' 2 no.3:34 Mr '58.
(MIRA 13:1)
(Roginskii, Nikolai, Osipovich 1883-)

BRYLEYEV, A.M., doktor tekhn.nauk.; MOZHAYEV, S.S., inzh.

Periodic alertness tests of locomotive engineers by means of
continuous automatic locomotive signaling apparatus. *Avtom.,*
telem. i sviaz' 2 no. 8:10-13 Ag '58. (MIRA 11:8)
(Locomotive engineers)
(Railroads--Signaling)

BRYLEYEV, A.M., doktor tekhn.nauk, prof.; USTINSKIY, A.A., kand.tekhn.nauk;
PUGIN, D.K., kand.tekhn.nauk; KHUDOV, V.N., inzh.

Use of radio channels in the automatic traffic control systems for
railroad sections. Vest.TSNII MPS 18 no.8:9-14 D '59.
(MIRA 13:9)

(Railroads--Automatic train control)
(Railroads--Communication systems)

BRYLEV, A.M., doktor tekhn.nauk, prof.; KHUAN SYU-KUN', inzh.

Rail networks carrying a signal current of higher frequency. Aytom.,
telem.i sviaz' 4 no.2:16-20 F '60. (MIRA 13:6)
(Railroads--Signalizing)

BAYLEYEV, A.M., doktor tekhn.nauk; SHISHLYAKOV, A.V., kand.tekhn.nauk;
MOZHAYEV, S.S., inzh.

Improved system for automatic cab signaling. Avtom., telem.
i sviaz' 4 no.6:4-7 Je '60. (MIRA 13:7)
(Locomotives) (Railroads--Signaling)

BRYLEVYEV, A.M., doktor tekhn.nauk, prof.; SHISHLYAKOV, A.V., kand.tekhn.^{+/-} nauk; PUGIN, D.K., kand.tekhn.nauk; YEFIMOV, G.K., inzh.; MOZHAYEV, S.S., inzh.; GRIGOR'YEV, N.I., inzh., retsenzenter; KAZAKOV, A.A., kand.tekhn.nauk, retsenzenter; PETUSHKOVA, I.K., inzh., fed.; USENKO, L.A., tekhn.red.

[New systems of coded automatic block signaling] Novye sistemy kodovoi avtoblokirovki. Moskva, Vses. izdatel'sko-poligr. ob"edinenie M-va putei soob., 1961. 135 p. (Moscow. Vsesoiuznyi nauchno-issledovatel'skii institut zheleznodorozhnogo transporta. (MIRA 15:1) Trudy, no.219)

(Railroads—Signaling—Block system)

BRYLEYEV, A.M., doktor tekhn.nauk; MOZHAYEV, S.S., inzh.; YEFIMOV, G.K.,
inzh.

Modernized numerical a.c. code-type automatic block system. Avtom.,
telem. i sviaz' 5 no.11:10-13 N '61. (MIRA 14:11)
(Railroads--Signaling--Block system)

BRYLEYEV, A.M., doktor tekhn.nauk, prof.; PUGIN, D.K., kand.tekhn.nauk;
YEFIMOV, G.K., inzh.

Coded a.c. circuit blocking with time division of coding in the
adjacent track cuicuits. Vest.TSNII MPS 20 no.5:3-8 '61.

(MIRA 14:8)

(Railroads--Signalng--Block system)

BRYLEV, Arkadiy Mikhaylovich, doktor tekhn. nauk, prof.; PENKIN, Nikolay Fedorovich, kand. tekhn. nauk; PUGIN, Daniil Kalistratovich, kand. tekhn. nauk; SHARIKOV, Vladimir Alekseyevich, inzh. Prinimauchastiye DMITRENKO, I.Ye., inzh.; SHIROKSHIN, K.A., inzh., retsenzent; MARENKOVA, G.I., inzh., red.; NOVIKAS, M.N., inzh., red. USENKO, L.A., tekhn. red.

[Transistorized and magnetic noncontact devices of centralized traffic control systems] Poluprovodnikovye i magnitnye beskontaktnye pribory v ustroistvakh STsB. [By] A.M.Bryleev i dr. Moskva, Transzheldorizdat, 1962. 230 p. (MIRA 15:5)

(Railroads--Electronic equipment)

(Railroads--Signaling--Centralized traffic control)

BRYLEYEV, A.M., prof., doktor tekhn.nauk; DMITRENKO, I.Ye., inzh.; PUGIN,
D.K., kand.tekhn.nauk

Automatic train traffic control system with the use of radio channels.
Zhel.dor.transp. 45 no.7:37-40 Jl '63. (MIRA 16:9)
(Railroads—Automatic train control)
(Railroads—Electronic equipment)

BRYLEYEV, A.M., doktor tekhn. nauk; YEFIMOV, G.K., kand. tekhn. nauk;
MOZHAYEV, S.S., inzh.

Code-type automatic a.c. block system with a DIA stage.
Avtom., telem. i sviaz' 7 no.6:3-7 Je '63.
(MIRA 17:3)

BRILEYEV, A.M., doktor tekhn. nauk, prof.; PUGIN, D.K., kand. tekhn.
nauk; IMITRENKO, I.Ye., inzh.

Station apparatus of a system for automatic space interval
control of train traffic using radio channels. Trud v MIJT
no.170:5-18 '63.

Tracking device of a system for automatic space interval
control of train traffic using radio channels. Ibid.:57-70
(MIRA 17:6)

BRYLEYEV, A.M., doktor tekhn. nauk, prof.; SHISHLYAKOV, A.V., kand.
tekhn. nauk; NENOV, I.Kh., aspirant

Frequency-code automatic block system. Trudy MIIT no.170:
(MIRA 17:6)
105-118 '63.

BRYLEYEV, A.M., doktor tekhn. nauk, prof. Prinimal uchastiye
BRYLEYeva, Ye.A., inzh.; KAZAKOV, A.A., red.

[Rail track circuits in railroad transportation; a summary of lectures] Rel'sovye tsepi na zheleznodorozhnom
transporte; konspekt lektsii. Moskva, Mosk. in-t in-
zhenerov zhel-dor. transp., 1963. 154 p. (MIRA 18:6)

BRYLEYEV, A.M., doktor tekhn. nauk, prof. Prinimal uchastiye
BRYLEYEVA, Ye.A., inzh.; KAZAKOV, A.A., red.

[Rail track circuits in railroad transportation; a summary of lectures] Rel'sovye tsepi na zheleznodorozhnom
transporte; konspekt lektsii. Moskva, Mosk. in-t in-
zhenerov zhel-dor. transp., 1963. 154 p. (MIRA 18:6)

KISFALUDY, Sandor; BRYLICH, Margit

Determination of ammonia in deproteinized blood. Kiserl. or-
vostud. 16 no.2:208-213 Ap'64

1. Budapesti orvostudomanyi Egyetem I. sz. Belklinikaja.

*

B
USSR.

5174 Mechanism of Electroposition of Chromium. A.
I. Levin, A. I. Falilcheva, E. A. Ukshe, and N. S. Brylina.
Henry Brücker Translation No. 1115, 3 p. (From Doklady
Archiv fur Metallkunde, v. 2, no. 4, 1948, p. 110-120.)
Henry Brücker, Altadena, Calif.

Previously abstracted from original. See Item 11082, v. 3,
Aug. 1954.

M 81

DRYLINA, N.S.

USSR

Mechanism of discharging of copper from electrolytes containing complex pyrophosphates. A. I. Levin, E. A. Utsche, and N. S. Brylina. *Doklady Akad. Nauk S.S.R.* 88, 697-700 (1953).—The authors studied the lack of a major difference in electrochem. properties between hydrated and complex ions during electrodeposition of Cu. The experiments were carried out on water soln. of CuSO_4 and $\text{Na}_2\text{P}_2\text{O}_7$ (I) with a Cu cathode. The pyrophosphate complex ions in such solns. are less stable than, e.g., cyanide complex ions. When changing the potential from +0.10 to -0.25 v. it was found that polarization curves show the following behavior: (a) when the potential reaches approx. +0.11 v. ("zero point") there is a decrease in amp. accompanied by an increase in polarization; (b) the max. current, at which the decrease takes place, is greater when the concn. of CuSO_4 is greater and when the concn. of I is smaller, i.e. when the ratio $[\text{P}_2\text{O}_7^{4-}]/[\text{Cu}^{+2}]$ is smaller; (c) after reaching a min. value the current begins to rise again, the rise being faster when the concn. of CuSO_4 is greater and when the concn. of I is smaller. E.g.: for CuSO_4 0.0115 and for I 0.0160 g. mol/l. the amp. change from 0 to 8.5×10^{-4} while the v. change from +0.10 to -0.05; the zero point is at +0.11 v. and 7×10^{-4} amp. It is apparent that the potential at the max. point of the polarization curve is in-

OVER

A. I. LEVIN

dependent of concn. of CuSO_4 or I and is approx. equal to +0.11 v. If the concn. of I is so high that the equil. potential of the Cu electrode is more neg. than +0.11 v. then the polarization curves have neither max. nor min. E.g., for CuSO_4 0.0075 and for I 0.015 g. mol./l. amp. change from 0 to 3.5×10^{-4} while the voltage change is from +0.04 to -0.25. In a similar manner in very dild. solns. contg., however, a certain small excess of I there are no max. or min. The current at the zero point should increase when the concn. of Cu increases; on the other hand, a decrease in the concn. of I apparently eases the supply of Cu^{++} to the cathode, thus increasing at the same time the current at the zero point. Neither vigorous agitation nor change of temp. by 5° had any effect on the above results. Substitution of CuSO_4 by $\text{Cu}(\text{NO}_3)_2$ increases only the potential of the zero point to 0.12 v. Expt. with other complex ions $\text{CuSO}_4 + \text{Na}_2\text{H}_4(\text{CH}_3\text{COO})_2\text{N}_2(\text{CH}_3)_4$, $\text{CuSO}_4 + \text{Na}_2\text{C}_2\text{H}_5\text{O}_2$, and $\text{CuSO}_4 + \text{Na}_2\text{C}_2\text{O}_4$ did not give pos. results. Addn. of Na citrate to the soln. of $\text{CuSO}_4 + I$ flattens the polarization

P. J. Hendel

BRYLINA, N.S.

*The Mechanism of Electrodeposition of Chromium. A. I.
Levin, A. I. Pal'mova, E. A. Usshe and N. S. Brylina
(Doklady Akad. Nauk S.S.R., 1934, 93, (1), 105-108). In
Russian. The relation between the current and potential
during electrolytic reduction of chromate ions was studied at
20° C, using Pt, Cr, Ni, Ag, Cu, and Zn electrodes. The
experiments conducted in aq. CrO_4 soln., with or without addn.
of SrCO_3 , showed that the electrodeposition of Cr on various
metals took place as a result of direct reduction of Cr-contg.
anions.—S. K. L.

Ural'skiy politekhnicheskiy intut im. S. M. Kirova.

SOBOLEV, N.D.; LEBEDEV-ZINOV'YEV, A.A.; NAZAROVA, A.S.; VILYUNOVA, L.P.;
BATALOV, Sh.S.; ~~REYLINA, O.M.~~; AFANAS'YEVA, L.K.; OVCHINNIKOVA, S.V.;
red.izd-va; OVANOVA, A.G., tekhn.red.

[Neogene intrusives and the pre-Mesozoic base in the region of Caucasian
mineral waters] Neogenovye intruzivy i domezozoiskii fundament raiona
Kavkazskikh mineral'nykh vod. Moskva, Gos.nauchno-tekhn.izd-vl lit-ry
po geol. i okhrane nedor, 1959. 208 p. (Moscow. Vsesoiuznyi nauchno-
issledovatel'skii institut mineral'nogo syr'ia. Trudy, no.3).

(MIRA 12:11)

(Caucasus, Northern—Rocks, Igneous)

BRYLINSKA, J.; JORDAN MARIA, DANCZAK, Z.; BRYK, E.

Effect of mitotic poisons on growth and regeneration. Przegl. lek,
Krakow 8 no. 4:100-104 1952. (CIML 22:5)

1. Of the Institute of Biology (Head--Prof. St. Skowron, M. D.) of
Krakow Medical Academy.

BRYLINSKA, Jadwiga, dr

~~Journal of Clinical Pharmacy~~

Considerations on the concept and origin of pyrogens in fluids
for injections. Farmacja 10 no.2:46-52 F '54. (EJAL 3:6)
(FEVER,

*pyrogens, presence in fluids for inject.)
(INJECTIONS,

*presence of pyrogens in fluids for inject.)

BRYLKIN, Yu.L.

Using standard logging diagrams for determining the mineralization
of formation waters in some districts of Omsk Province. Trudy
SNIIQQIMS no.18:54-59 '61. (MIRA 16:7)
(Omsk Province—Oil field brines—Analysis)

LEONT'YEV, Ye.I.; BRYLKIN, Yu.L.

Determination of the porosity of Mesozoic sediments in the central
part of the West Siberian Plain. Geol. nefti i gaza 6 no.6:~~32~~-33
Je '62. (MIRA 15:6)

1. Novosibirskiy geofizicheskiy trest.
(West Siberian Plain--Oil sands--Permeability)

BRYL'KIN, M.L.

Practice of working with PKS-105 cumulative perforators in wells
cased with 5" columns. Razved. i prom. geofiz. no.40:91-95
'61. (MIRA 15:7)

(Boring machinery)

BRYLKIN, Yu.L.; LEONT'YEV, Ye.I.

Some problems in the interpretation of microzonde diagrams. Razved.
i prom. geofiz. no.50:88-91 '63. (MIRA 18:3)

BRYL'KIN, Yu.L.; SIGAL, L.A.

Combined geophysical investigations in the West Siberian Plain.
Geol. nefti i gaza 7 no.11:38-42 N. '63. (MIRA 17:8)

1. Novosibirskiy geofizicheskiy trest i Sibirskiy nauchno-
issledovatel'skiy institut geologii, geofiziki i mineral'nogo
syr'ya.

BESTKIN, Harry

New section for distinguishing between red layers in the original
version of the West German Constitution, example, article 105
1951
(MRA 18:9)

1. New numbering according to old example

BRYLINSKI, Edmund; BRYLINSKA, Maria

Feeding habits of the Salmo trutta morpha lacustris L. lake trout
in Wdzydze Lake. Rocznik nauk roln zootechn 84 no.2:457-474 '64.

1. Department of Arrangement of Fishing Farms of the Institute
of Inland Water Fisheries, Olsztyn, and Division of Fishery of
the School of Agriculture, Olsztyn.

BRYLINSKI, Edmund; BRYLINSKA, Maria

Feeding habits of the *Salmo trutta morpha lacustris* L. lake trout
in Wdzydze Lake. Rocznik nauk roln zootechn 84 no.2:457-474 '64.

1. Department of Arrangement of Fishing Farms of the Institute
of Inland Water Fisheries, Olsztyn, and Division of Fishery of
the School of Agriculture, Olsztyn.

TOTH, Zbigniew; BRYNIKOWSKI, Zbigniew; ROBERTANSKI, Zdzislaw;
PRZEDLACKI, Janusz

Scintigraphy of the liver. Pol. arch. med. wewnet. 35 no.6:
879-883 '65.

1. Z Ośrodka Ochrony Radiologicznej i Radiobiologii w Warszawie
(Kierownik: dr. med. T. Obara) i z Katedry i Kliniki Chorob
Wewnętrznych 2 CSK Wojskowej AM w Łodzi (Kierownik: prof. dr.
med. D. Aleksandrow).

ROMANOV, P.F., dotsent; BRYLOV, D.A., dotsent

Condition of water sources on some collective farms in
Ili District, Alma-Ata Province. Trudy AZVI 9281-286 '56.
(MIRA 15:4)

1. Iz kafedry zoogigiyeny (zav. kafedroy - kand.veterinarnykh
nauk dotsent P.F.Romanov) Alma-Atinskogo zooveterinarnogo instituta.
(Ili District—Water supply, Rural)

BRYLOV, D.A., dots.; LEONT'YEV, A.K., vetvrach

Efficient system of collecting and destroying animal carcasses.
Trudy AZVI 10:450-452 '57. (MIRA 12:8)

1. Iz kafedry zoogigiyeny (zav.kafedroy - dots. P.F.Romanov)
Alma-Atinskogo zoovetinstituta.
(Dead animals, Removal and disposal of)

BRYLOV, S. A.

PA 51T71

UNCLASSIFIED/Mines

Mar 1948

Mining Methods

Mining Machinery

"Secondary Crushing by Falling Weight in the Kounradsk
Mine," S. A. Brylov, Mining Engr, 2 pp

"Gornyy Zhur" No 3

Describes advantages of using "monkey" for crushing
large lumps of ore, includes diagram of steel
"monkey," and photographs of its use in the Kounradsk
mine.

LC

51T71

BRYLOV, S. A.

Utilization of the energy of a falling load in quarries, road, and construction work. Mekh. trud. rab. No 2, Vol 6, 1952.

BRYLOV, S.A., kandidat tekhnicheskikh nauk.

Mechanical crushing of unsized rocks in quarries. Mekh.stroi.
13 no.1:23-25 Ja '56. (MIRA 9:3)
(Quarries and quarrying)

BRYLOV, S.A.

Outline history of the development of mining. Trudy MGRI 30:
143-150 '56. (MLRA 9:11)
(Mines and mineral resources)

BRYLOV, S.A.

AUTHOR: Brylov, S.A. and Vercheba, A.O. 132-10-5/13

TITLE: About Selecting Perforators for Prospecting Drifts and Pits
(K voprosu vybora perforatorov dlya provedeniya razvedochnykh
vyrabotok)

PERIODICAL: Razvedka i okhrana nedr, 1957, # 10, p 26-31 (USSR)

ABSTRACT: In 1955, the Ministry of Geology and for the Preservation of Natural Resources developed a series of mining equipment for prospecting work, and recommended the following perforators: ПНМ-17, ОМ-506, ПТ-30, ТП-4 and РП-30К. The author published data of the high-frequency perforators ПР-10, ПР-20, ПР-23, ПРС-3 and ПР-25 (table 1) manufactured in the USSR during the past years. The Russian-made standard screw and fastening devices do not meet the requirements for prospecting work. The author refers to the Finnish multi-purpose high-frequency perforator "Tampella T-10C". Comparative data of the perforators "OM-506" and "Tampella T-10C" are given on table 3. After analyzing the tests conducted with these perforators and high-frequency perforators of Soviet make, the following results were obtained:
1. High-frequency perforators are of high productive capacity at the drilling of blast holes.
2. The difference in productive capacity becomes especially

Card 1/2

About Selecting Perforators for Prospecting Drifts and Pits 132-10-5/13

evident at low air pressure.

3. High-frequency perforators provide fast drilling operations under these conditions.

4. The productive capacity of "OM-506" changes more rapidly with changing pressure on the face than high-frequency perforators. High-frequency perforators are recommended for drilling operations of hard rocks, and are suitable for prospecting work. Standardization of limited numbers of types of multi-use drilling machines and auxiliary prospecting equipment is recommended.

There are 1 diagram, 2 figures and 3 tables.

ASSOCIATION: Moscow Geological - Prospecting Institute im. S. Ordzhonikidze
(MGRI)

AVAILABLE: Library of Congress

Card 2/2

"APPROVED FOR RELEASE: 06/09/2000

CIA-RDP86-00513R000307120018-9

BRYLOV, S. A. kandidat tekhnicheskikh nauk.

Improve the secondary crushing of rocks. Bezop. truda v prom.
I no.8:14-16 Ag '57. (MLRA 10:8)
(Mining engineering)

APPROVED FOR RELEASE: 06/09/2000

CIA-RDP86-00513R000307120018-9"

BRYLOV, S.A.; VERCHEBA, A.O.

Selecting perforators for boring exploratory holes. Razved. i okh.
nedr 23 no.10:26-31 0 '57. (MIRA 11:2)

1. Moskovskiy geologorazvedochnyy institut im. S. Ordzhonikidze.
(Boring machinery)

BRYLOV, S. A.: Doc Tech Sci (diss) -- Abstract of dissertation on "Secondary crushing of ore in the underground working of deposits". Moscow, 1958. 30 pp
(Acad Sci USSR, Inst of Mining), 150 copies (KL, No 2, 1959, 120)

BRYLOV, S.A.; BAGDASAROV, Sh.B.

Strength of foundations of structures. Izv.vys.ucheb.zav.;
geol. i razv. 1 no.6:109-116 Je '58. (MIRA 13:2)

1. Moskovskiy geologorazvedochnyy institut im.S.Ordzhonikidze.
(Foundations)

AUTHORS: Brylov, S.A., Vercheba, A.O. 132-58-3-4/15

TITLE: The Question of the Mechanization of Mineral - Prospecting Operations in Remote and Not Easily Accessible Districts (K voprosu o mekhanizatsii gornorazvedochnykh rabot v usloviyakh ot-dalennykh i trudnodostupnykh rayonov)

PERIODICAL: Razvedka i Okhrana Nedr, 1958, Nr 3, pp 22 -26 (USSR)

ABSTRACT: As mineral-prospecting operations are now being conducted in the sparsely populated northern and eastern parts of the USSR where no electric stations are available, it is important that prospecting parties be equipped with small and lightweight internal combustion engines. The authors recommend the English engine "Omega" which has only 9 moving parts. The authors further describe combinations of the internal combustion engine with a generator, a compressor, a ventilator, a winch and a pump mounted on a light tube-frame, which can be assembled and disassembled without any difficulty and is adapted for the transport under difficult conditions. For drilling on resistant rock formations, the authors recommend the use of motor perforators built in Sweden and the US. Perforators built in the USSR are not used in the operations because they are not powerful enough. A geologic prospecting team, sent by the Mini-

Card 1/2

132-58-3-4/15

The Question of the Mechanization of Mineral - Prospecting Operations in
Remote and Not Easily Accessible Districts

sterstvo geologii i okhrany nedr SSSR (Ministry of Geology and Conservation of Mineral Resources) of the Kazakh SSR, into Chul' Adyr, has combined a 6 hp gas engine with a generator of 6 kw, which very much simplified the task and eliminated the use of manual work. The authors recommend the immediate series construction of such mobile engines and generators. There are 5 figures.

ASSOCIATION: MGRI

AVAILABLE: Library of Congress

Card 2/2 1. Mining engineering 2. Geophysical prospecting

AUTHORS: Brylov, S.A. and Bagdasarov, Sh.B. 132-58-7-10/13

TITLE: Testing of Mechanical Properties of Rocks by Local Compression (Ispytaniye mekhanicheskikh svoystv gornykh porod pri mestnom szhatii)

PERIODICAL: Razvedka i okhrana nedr, 1958, Nr 7, pp 53-56 (USSR)

ABSTRACT: The study of mechanical properties of rocks is very important for various branches of science and industry. The authors propose a specially constructed press with a hydraulic compensator and a manometer. They recommend the use of plungers of various dimensions and describe the results of local compression with these plungers. There are 2 tables, 1 graph and 5 diagrams.

ASSOCIATION: MGRI

- 1. Rock--Mechanical properties
- 2. Presses--Application
- 3. Presses--Equipment

Card 1/1

BRYLOV. S.A.

127-58-7-10/20

AUTHOR: Agoshkov, M.I., Corresponding Member of the AS USSR
Brylov, S.A., Candidate of Technical Sciences, and
Nikanorov, V.I., Mining Engineer

TITLE: Secondary Ore Crushing by a Hydraulic Press (Vtorichnoye
drobleniye rudy gidravlicheskim pressom)

PERIODICAL: Gornyy zhurnal, 1958, Nr 7, pp 55-59 (USSR)

ABSTRACT: The authors describe experiments made by the Institute of
Mining Works of the Geologo-razvedochnyy institut imeni
Ordzhonikidze (The Geological-Prospecting Institute imeni
Ordzhonikidze) on secondary ore crushing with hydraulic presses.
This operation until now was not mechanized. The press was
installed in a mining gallery. It was composed of two hydraulic
cylinders from the GD-300 lifting jack and a high-pressure
oil pump. A buttress composed of girders with forged iron
pieces welded on them, was installed against the wall. Pieces
of rock were placed against the girders and the press. The
experiments showed that secondary crushing by this method
caused less dust, was more rapid and could be regulated by
applying more or less pressure and by using different types
of punches. The method of dropping weights on pieces of rock

Card 1/2

Secondary Ore Crushing by a Hydraulic Press

127-58-7-10/20

to crush them was also tested, and proved to be less efficient.
The authors recommend the introduction of the hydraulic press
method into the mining industry.
There are 3 photos, 2 drawings and 4 tables.

ASSOCIATION: Institut gornogo dela AN SSSR (The Mining Institute of the
AS USSR)

Card 2/2 1. Ore crushing 2. Hydraulic presses-Applications

BRYLOV, S.A.

Determining the granulometric composition of ores and classifying
them by chunk size. Trudy MGRI 32:3-8 '58. (MIRA 12:10)
(Ores--Classification)

BRYLOV, S.A.

Means for improving the secondary crushing of ores in underground
mining. Trudy MGRI 34;26-30 '59. (MIRA 13:12)
(Mining engineering)

BRYLOV, S.A.

Percussion boring of blastholes and wells. Izv. vys. ucheb.
zav.; geol. i razv. 3 no.7:115-126 J1 '60. (MIRA 13:9)

1. Moskovskiy geologorazvedochnyy institut im. S.Ordzhonikidze.
(Boring)

BRYLOV, S.A.

Development of the technique operations in secondary breaking of
mine rocks. Trudy Inst.ist.est.i tekhn. 33:142-153 '60.
(MIRA 13:8)

(Mining engineering) (Crushing machinery)

VERCHEBA, A.O.; BRYLOV, S.A.; BAGDASAROV, Sh. B.

Mechanization of test ditch and hole sinking. Izv. vys. ucheb. zav.;
geol. i razv. 3 no.8:99-111 Ag '60. (MIRA 13:10)

1. Moskovskiy geologorazvedochnyy institut imeni S. Ordzhonikidze.
(Prospecting)

Study
BRYLOV, S. A., Doc Tech Sci, "INVESTIGATION OF DIS-
INTEGRATION OF ROCK UNDER LOCAL COMPRESSION AND UTILI-
ZATION OF THIS PHENOMENON IN MINING OPERATIONS." MOSCOW,
1961. (MIN OF HIGHER AND SEC SPEC ED UKSSR. DNEPROPETROVSK
ORDER OF LABOR RED BANNER MINING INST IMENI ARTEM). (KL-DV,
11-61, 216).

-99-

BRYLOV, S. A., dotsent, kand. tekhn. nauk

Study of the rupturing of brittle material under local compression. Sbor. trud. MISI no.39:149-154 '61.
(MIRA 16:4)

1. Moskovskiy geologorazvedochnyy institut imeni S. Ordzhonikidze.

(Rocks—Testing)

BRYLOV, S.A.; BAGDASAROV, Sh.B.

Effect of the loading rate on the crumbling of brittle rocks
in local compression. Izv.vys.uchet.zav.;geol.i razv. 4 no.9:
108-117 S '61. (MIRA 14:9)

1. Moskovskiy geologorazvedochnyy institut imeni S. Ordzhonikidze.
(Rocks—Testing)

VERCHEBA, A.O.; BRYLOV, S.A.; GORBUSHINA, I.V.; PAL'IMOV, I.I.

Radioactivity of the dust of uranium mines and methods for
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AUTHOR: Bry*ly*ns'ky*y, M. I.; Vy*shnevs'ky*y, V. N.; Pidzy*raylo, M. S..

TITLE: Temperature and concentration dependence of the quantum yield of photoluminescence of NaI (Tl) crystal phosphors

SOURCE: Ukrayins'sky*y fizy*chry*y zhurnal, v. 9, no. 1, 1964, 59-65

TOPIC TAGS: luminescence, NaI(Tl) crystal, Tl, thermoluminescence, photoluminescence, phosphor, quantum yield

ABSTRACT: The dependence of the energy distribution in photoluminescence spectra of NaI-Tl crystals on the Tl content and the temperature was investigated. The temperature dependence of the quantum yield of photoluminescence was also studied. With increasing concentrations of Tl, the maximum of the total intensity of photoluminescence was displaced towards lower temperatures (from 150° for pure NaI to 80° for NaI + 4% Tl). On repeated heating of the crystal, the displacement of the maximum decreased. With increasing temperatures the quantum yield of crystals with any Tl content increased. Two maxima were observed: a low-temperature maximum at 60° for pure NaI and at 45° for NaI + 4% Tl; a high-temperature

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maximum at 150° for pure NaI and at 125° for NaI + 4% TlI. The location of the quantum yield maxima is related to the fact that NaI-Tl crystals develop a perceptible thermoluminescence at 50 and 140°. When crystals of NaI-Tl were heated 2-3 hrs. after being grown, only the high-temperature quantum yield maximum could be observed; the low-temperature maximum was absent. "The authors feel obliged to express their thanks to students G. M. Levytskiy and E. P. Kukhar for their help in conducting the experiments." Orig. art. has: 5 figures and 1 formula.

ASSOCIATION: L'viv's'ky'y Derzhuniversy*tet im. Iv. Franka (L'vov State University)

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